

ipuz:

class Q {

int n;

boolean value set = false;

Synchronized int get() {

while (value set) {

try {

System.out.println ("Consumer waiting in");
wait();

} catch (InterruptedException) {

System.out.println ("InterruptedException caught");
} }

System.out.println ("Got item");

value set = true;

System.out.println ("Intimate procedure");

notify();

return n;

}

Synchronized void put (int n) {

while (value set) {

try {

System.out.println ("Producer waiting in");
wait();

} catch (InterruptedException) {

System.out.println ("InterruptedException caught");
} }

this.n = n;

value set = true;

System.out.println ("Put " + n);

System.out.println ("Intimate procedure");
}

}

class Procedure implements Runnable {

Qq;

Procedure(Qq) {

this.q = q;

new Thread (this, "Procedure").start();

}

Public void run() {

int i = 0;

while (i < 15) {

q.put (i++);

try {

Thread.sleep (500)

} catch (InterruptedException e) {

System.out.println ("Procedure interrupted " + e);

}

class Consumer implements Runnable

Qq;

Consumer(Qq) {

this.q = q;

new Thread (this, "Consumer").start();

}

Public void run() {

while (true) {

q.get();

try {

Thread.sleep (1000);

Procedure

} catch (InterruptedException e) {

System.out.println ("Consumer " + e);

}

Public class Main {

public static void main(String[] args) {

System.out.println("Abhinav Choudhary 13M23C008");

Qq = new Q();

new procedure(q);

new consumer(q);

}

}

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Q) Demonstrate inter Process communication & deadlock.

Output:

Put: 1

Get: 1

Put: 2

Get: 2

Put: 3

Get: 3

Put: 4

~~Get: 4~~

Put: 5

Get: 5